

Work Order ID 146557

Thursday, May 19, 2016 1:33:44 PM

146557

Page 1

Item ID: 647.7303 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: EC135 Cable Cutters (Removable Provisions Only)
Start Date: 5/19/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 5/25/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference: Disassemble

Approvals: Process Plan: Em Date: 16/05/19 Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____
Run Start ***NR1***
Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.7300	B								

130

0.00

130

Packaging

Packaging

Memo

0.00

Packaging

PULL FROM STOCK:
1 x 647.7303 B-138078
Disassemble kit completely
Return all parts to stock using original B/N's

MAY 24 2016

DAG
8
9-29

140

QC21- Final Inspection - Work Order Release

0.00

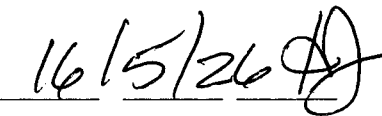
140

QC

Memo

0.10

Quality Control

16/5/26 
Em 16/05/25.

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

Picklist Print

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Page 1

Work Order ID: 146557

146557

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 5/19/2016

Required Date: 5/25/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.05 NEW ISSUE DD VERF:JLM
REV:B 16.04.26 sa per dwg revB DD VERF:JLM

IPP

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

601.2045		Purchased	No				Each	15.0000		-1			
601 2045									**	133275		DAS 6 9-89	
RTV (LOCTITE 598)McMaster p/n: 6641A41													

Location	Loc Qty	Loc Code
CCK096	7	
m133588	7	
GA	8	
m134260	8	

647.0112		Manufactured	No				Each	76.0000		-4			
647 0112									**	# 122871		DAS 6 9-89	
Strut Bracket													

Location	Loc Qty	Loc Code
CCK107	18	
140968	18	
CCK108A	58	
142661	58	

647.1701		Manufactured	No				Each	10.0000		-2			
647 1701									**	132978		DAS 6 9-89	
Skid Deflector Assembly													

Location	Loc Qty	Loc Code
CCK033	10	
132978	3	
138396	5	
141079	2	

MAY 24 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER : ☐							

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Work Order ID: 146557

146557

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 5/19/2016

Required Date: 5/25/2016

Start Qty: 1.00

Required Qty: 1.00

647.7401

Manufactured No

Each 3.0000

-1

647 7401

Upper Cutter Assembly

**

138426

DAS

8

8-8s

Location

Loc Qty

Loc Code

cck029

3

137316

2

144091

1

647.7501

Manufactured No

Each 0.0000

-1

647 7501

Lower Cutter Assembly

**

136950

DAS

8

8-8s

647.7701

Manufactured No

Each 1.0000

-2

647 7701

Strut Assembly

**

Location

Loc Qty

Loc Code

CCK114

1

M130388

1

647.7702

Manufactured No

Each 0.0000

-2

647 7702

Strut Assembly

**

130388

DAS

8

8-8s

AN3-11A

Purchased No

Each 99.0000

-4

AN3-11A

Bolt

**

133231

DAS

8

8-8s

Location

Loc Qty

Loc Code

ST349

99

m134167

99

MAY 24 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment	☐		No Re-verification	☐		Pressure/Forced	☐
Design	☐		Operator	☐		Bending	☐
Doc/Data	☐		Offset/Setup	☐		Centre Not Concentric	☐
Equip/Tooling	☐		Supplier	☐		Cracks	☐
Handling/Pre	☐		Training	☐		Crimp/Kink/Ripple/Wave	☐
Material	☐		Use for Testing	☐		Cuffs	☐
Internal Transport	☐		Poor Information	☐		Crushing	☐
Tribal Knowledge	☐		Rushing	☐		Heat Treat	☐
LOA	☐		Product Improvement	☐		Wave/Twist in Tube	☐
Substation	☐		Process Improvement	☐		Marks/Chatter	☐
Past Expiry Date	☐		Manufacturing Process	☐			
Misidentified	☐		Past Due	☐		OTHER :	☐

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Work Order ID: 146557

146557

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 5/19/2016

Required Date: 5/25/2016

Start Qty: 1.00

Required Qty: 1.00

AN316C4R Purchased No

Each 47.0000 -4

AN316C4R

NUT

Location

Loc Qty

Loc Code

ST331

47

m133234

39

m133523

8

DAS
6
9-89

AN4C7A Purchased No

Each 40.0000 -4

AN4C7A

BOLT

Location

Loc Qty

Loc Code

OVER002

20

m133523

20

ST345

20

m133990

20

DAS
6
9-89

AN665-34R Purchased No

Each 23.0000 -4

AN665-34R

Clevis

Location

Loc Qty

Loc Code

ST330

23

M134202

23

DAS
6
MAY 24 2016

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Shop Packet Print

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

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Work Order ID: 146557

146557

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 5/19/2016

Required Date: 5/25/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L08

Purchased

No

Each

1,028.000

-6

MS21042I 08

Nut

132930

DAS

6
9-89

Location

Loc Qty

Loc Code

GA

319

m133134

3

m134063

316

ST303

537

m133922

37

m134574

200

m134654

300

ST308

172

m134376

172

MS21042L3

Purchased

No

Each

1,633.000

-4

MS21042I 3

Nut

1129682

DAS

6
9-89

Location

Loc Qty

Loc Code

FP001

100

m133790

100

GA

254

m133790

3

m134360

251

ST303

1279

m134039

12

m134360

67

m134634

600

m134754

600

MAY 24 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions				
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance				
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect				
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing				
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved				
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing				
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish				
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread				
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence				
Past Expiry Date ☐	☐ Manufacturing Process	OTHER : _____							
Misidentified ☐	☐ Past Due								

Picklist Print

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Thursday, May 19, 2016 1:34:14 PM

Work Order ID: 146557

146557

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 5/19/2016

Required Date: 5/25/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

Each

2,059.000

-8

MS21042L 4

Locknut

133316X6
133365X2

DAS
6
9-89

Location

Loc Qty

Loc Code

GA

187

m133769

187

OVER007

1500

m134676

500

m134762

1000

ST303

275

m134606

275

ST305

97

m130922

97

MS27039-08-13

Purchased

No

Each

226.0000

-4

MS27039-08-13

Screw

4067

DAS
6
9-89

Location

Loc Qty

Loc Code

ST278

226

124326

226

MS27039-08-16

Purchased

No

Each

92.0000

-2

MS27039-08-16

SCREW PAN HD

Location

Loc Qty

Loc Code

CA

48

112466

48

ST278

44

M130388

44

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS4042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Picklist Print

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Thursday, May 19, 2016 1:34:14 PM

Work Order ID: 146557

146557

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 5/19/2016

Required Date: 5/25/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

Each

2,960.000

-12

NAS1149F0332P

Washer

133134

DAG
6
9-89

Location

Loc Qty

Loc Code

GA

312

m133709

312

ST262

2648

m134257

648

m134676

2000

NAS1149F0432P

Purchased

No

Each

1,150.000

-8

NAS1149F0432P

WASHER

133234

DAG
6
9-89

Location

Loc Qty

Loc Code

ST260a

1000

M134502

1000

ST262

29

M133990

29

st268

121

M132677

121

NAS1149F0463P

Purchased

No

Each

850.0000

-8

NAS1149F0463P

Washer

Location

Loc Qty

Loc Code

ST262

850

m127832

850

DAG
6
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

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Thursday, May 19, 2016 1:34:14 PM

Work Order ID: 146557

146557

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 5/19/2016

Required Date: 5/25/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149FN832P

Purchased

No

Each

2,045.000

-12

68-6

NAS1149FN832P

Washer

**

33284

9
SVD

Location

Loc Qty

Loc Code

GA

475

M133316

16

M133769

459

ST260a

1200

M134257

1200

ST264

370

M133709

370

NAS6603-12

Purchased

No

Each

132.0000

-4

68-6

NAS6603-12

Bolt

**

9
SVD

Location

Loc Qty

Loc Code

ST261

132

123900

120

552 m130388

12

Each

77.0000

-4

NAS6603-16

Purchased

No

NAS6603-16

Bolt

**

68-6

9
SVD

Location

Loc Qty

Loc Code

ST261

27

m128199

15

m130388

12

st552

50

m133523

50

MAY 24 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

Thursday, May 19, 2016 1:34:14 PM

Work Order ID: 146557

146557

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 5/19/2016

Required Date: 5/25/2016

Start Qty: 1.00

Required Qty: 1.00

NAS6604-66

Purchased

No

Each

100.0000

-4

NAS6604-66

124328

DAS

Bolt

6

9-89

Location

Loc Qty

Loc Code

ST553

100

124328

56

M130388

44

MAY 24 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Work Order ID 138078

Tuesday, November 03, 2015 11:41:30 AM

138078

DUPLICATE

Page 1

Item ID: 647.7303 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: EC135 Cable Cutters (Removable Provisions Only)
 Start Date: 10/23/2015 Start Qty: 2.00 ***2*** Cust Item ID:
 Required Date: 11/19/2015 Req'd Qty: 2.00 ***2*** Customer:
 Reference:

Approvals: Process Plan: MF Date: 5-11-04 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.7300	A								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.7303								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

DAS
27
9-89

DAS
6
9-89

NOV 25 2015

DAS
27
9-89

NOV 03 2015

DAS
28
9-89

NOV 25 2015

DAS
6
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐											
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																																
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																																
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																																
Large Fab ☐	Composite ☐	Supplier ☐																																	
Date :		Step #:		QTY Effective :		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																													
Description Work Order Deviation				Disposition																															
Root Cause <table style="width:100%; border: none;"> <tr><td>Environment ☐</td><td>No Re-verification ☐</td></tr> <tr><td>Design ☐</td><td>Operator ☐</td></tr> <tr><td>Doc/Data ☐</td><td>Offset/Setup ☐</td></tr> <tr><td>Equip/Tooling ☐</td><td>Supplier ☐</td></tr> <tr><td>Handling/Pre ☐</td><td>Training ☐</td></tr> <tr><td>Material ☐</td><td>Use for Testing ☐</td></tr> <tr><td>Internal Transport ☐</td><td>Poor Information ☐</td></tr> <tr><td>Tribal Knowledge ☐</td><td>Rushing ☐</td></tr> <tr><td>LOA ☐</td><td>Product Improvement ☐</td></tr> <tr><td>Substation ☐</td><td>Process Improvement ☐</td></tr> <tr><td>Past Expiry Date ☐</td><td>Manufacturing Process ☐</td></tr> <tr><td>Misidentified ☐</td><td>Past Due ☐</td></tr> </table>		Environment ☐	No Re-verification ☐	Design ☐	Operator ☐	Doc/Data ☐	Offset/Setup ☐	Equip/Tooling ☐	Supplier ☐	Handling/Pre ☐	Training ☐	Material ☐	Use for Testing ☐	Internal Transport ☐	Poor Information ☐	Tribal Knowledge ☐	Rushing ☐	LOA ☐	Product Improvement ☐	Substation ☐	Process Improvement ☐	Past Expiry Date ☐	Manufacturing Process ☐	Misidentified ☐	Past Due ☐	FAULT CATEGORY <table style="width:100%; border: none;"> <tr> <td style="width:33%;"> ☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter </td> <td style="width:33%;"> ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes </td> <td style="width:33%;"> ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center </td> <td style="width:33%;"> ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence </td> </tr> </table>						☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter	☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes	☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center	☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence
Environment ☐	No Re-verification ☐																																		
Design ☐	Operator ☐																																		
Doc/Data ☐	Offset/Setup ☐																																		
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Material ☐	Use for Testing ☐																																		
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LOA ☐	Product Improvement ☐																																		
Substation ☐	Process Improvement ☐																																		
Past Expiry Date ☐	Manufacturing Process ☐																																		
Misidentified ☐	Past Due ☐																																		
☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter	☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes	☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center	☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence																																
OTHER : ☐																																			

Work Order ID 138078***138078***

Page 2

Tuesday, November 03, 2015 11:41:30 AM

Item ID: 647.7303 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: EC135 Cable Cutters (Removable Provisions Only)
Start Date: 10/23/2015 Start Qty: 2.00 ***2*** Cust Item ID:
Required Date: 11/19/2015 Req'd Qty: 2.00 ***2*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 647.7303								
	Location: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

1X DAS 28 9-89 NOV 25 2015

MUS 15-11-25

SL 20151125

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification ☐	☐	Pressure/Forced ☐	☐	Temperature/Cure ☐	☐
Design ☐	☐	Operator ☐	☐	Bending ☐	☐	Set-up ☐	☐
Doc/Data ☐	☐	Offset/Setup ☐	☐	Centre Not Concentric ☐	☐	BOM/Route ☐	☐
Equip/Tooling ☐	☐	Supplier ☐	☐	Cracks ☐	☐	Broken/Damage/Defect ☐	☐
Handling/Pre ☐	☐	Training ☐	☐	Crimp/Kink/Ripple/Wave ☐	☐	Inspection Incomplete/Unqualified ☐	☐
Material ☐	☐	Use for Testing ☐	☐	Cuffs ☐	☐	Contamination ☐	☐
Internal Transport ☐	☐	Poor Information ☐	☐	Crushing ☐	☐	Countersink ☐	☐
Tribal Knowledge ☐	☐	Rushing ☐	☐	Heat Treat ☐	☐	Cut Too Short ☐	☐
LOA ☐	☐	Product Improvement ☐	☐	Wave/Twist in Tube ☐	☐	Instructions Incomplete/Unclear ☐	☐
Substation ☐	☐	Process Improvement ☐	☐	Marks/Chatter ☐	☐	Drill Holes ☐	☐
Past Expiry Date ☐	☐	Manufacturing Process ☐	☐	OTHER : _____			
Misidentified ☐	☐	Past Due ☐	☐				

Picklist Print

Tuesday, November 03, 2015 11:41:29 AM

Page 1

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A 12.10.05 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.7401 *647-7401* Upper Cutter Assembly 9-89		Manufactured	No				Each	0.0000	1	2			DAS 28 9-89
647.7501 *647-7501* Lower Cutter Assembly 9-89		Manufactured	No				Each	0.0000	1	2			DAS 28 9-89
647.1701 *647-1701* Skid Deflector Assembly 9-89		Manufactured	No				Each	1.0000	1	4			DAS 27 9-89
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					CCK033			1					
					135086			1					
647.7702 *647-7702* Strut Assembly 9-89		Manufactured	No				Each	4.0000	1	4			DAS 27 9-89
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					CCK051			4					DAS 28 9-89
					M130388			4					
647.7701 *647-7701* Strut Assembly 9-89		Manufactured	No				Each	5.0000	1	4			DAS 27 9-89
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					CCK114			5					
					M130388			5					

NOV 03 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval				
Description Work Order Deviation				Disposition							
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter		☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes		☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center		☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence	
OTHER : ☐											

Picklist Print

Tuesday, November 03, 2015 11:41:29 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

647.0112

Manufactured No

Each

121.0000

8

647 0112

Strut Bracket

**

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK032a

114

123318

22

M130388

92

CCK107

1

122245

1

CCK109

6

122871

6

123318

0

AN665-34R

Purchased No

Each

28.0000

8

AN665-34R

Clevis

**

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST330

28

M130388

4

M133134

14

M133483

10

AN3-11A

Purchased No

Each

132.0000

8

AN3-11A

Bolt

**

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST338a

50

m133363

50

ST349

82

m132823

8

m133234

74

NOV 03 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Tuesday, November 03, 2015 11:41:29 AM

Page 3

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

AN4C7A

Purchased

No

Each

56.0000

8

AN4C7A

BOLT

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST340

20

m133363

20

ST345

36

m127363

36

Each

140.0000

8

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST261

140

123900

128

m130388

12

Each

35.0000

8

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST261

35

m128199

23

m130388

12

Each

116.0000

8

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST261

116

124328

72

M130388

44

NOV 03 2015

NAS6603-12

Purchased

No

NAS6603-12

Bolt

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST261

140

123900

128

m130388

12

Each

35.0000

8

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST261

35

m128199

23

m130388

12

Each

116.0000

8

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST261

116

124328

72

M130388

44

NOV 03 2015

NAS6604-66

Purchased

No

NAS6604-66

Bolt

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

ST261

116

124328

72

M130388

44

NOV 03 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐																			

Picklist Print

Tuesday, November 03, 2015 11:41:30 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

MS21042-08 MS21042L08

Purchased No

Each 33.0000 12

MS21042-08

USE MS21042L08

DAS
6
9-89

Location

Loc Qty

Loc Code

DAS
27
9-89

ST304

25

122815

25

ST306

8

m130388

8

Each 196.0000

**

MS21042-3

MS21042L3

Purchased No

MS21042-3

Nut / use MS21042L3

DAS
6
9-89

Location

Loc Qty

Loc Code

DAS
27
9-89

ST305

196

M129682

196

NOV 03 2015

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																		
Description Work Order Deviation				Disposition																					

Root Cause <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Environment ☐</td> <td style="width:15%;">No Re-verification ☐</td> <td style="width:15%;">Pressure/Forced ☐</td> <td style="width:15%;">Temperature/Cure ☐</td> <td style="width:15%;">Power Loss/Surge ☐</td> <td style="width:15%;">Positioned Wrong ☐</td> </tr> <tr> <td>Design ☐</td> <td>Operator ☐</td> <td>Bending ☐</td> <td>Set-up ☐</td> <td>Folio/Program ☐</td> <td>Outside Dimensions ☐</td> </tr> <tr> <td>Doc/Data ☐</td> <td>Offset/Setup ☐</td> <td>Centre Not Concentric ☐</td> <td>BOM/Route ☐</td> <td>Grain ☐</td> <td>Over/Under tolerance ☐</td> </tr> <tr> <td>Equip/Tooling ☐</td> <td>Supplier ☐</td> <td>Cracks ☐</td> <td>Broken/Damage/Defect ☐</td> <td>Weld ☐</td> <td>Part Incorrect ☐</td> </tr> <tr> <td>Handling/Pre ☐</td> <td>Training ☐</td> <td>Crimp/Kink/Ripple/Wave ☐</td> <td>Inspection Incomplete/Unqualified ☐</td> <td>Wrong Stock Pulled ☐</td> <td>Part Lost/Missing ☐</td> </tr> <tr> <td>Material ☐</td> <td>Use for Testing ☐</td> <td>Cuffs ☐</td> <td>Contamination ☐</td> <td>Out of Sequence ☐</td> <td>Part Moved ☐</td> </tr> <tr> <td>Internal Transport ☐</td> <td>Poor Information ☐</td> <td>Crushing ☐</td> <td>Countersink ☐</td> <td>Off-set ☐</td> <td>Drawing ☐</td> </tr> <tr> <td>Tribal Knowledge ☐</td> <td>Rushing ☐</td> <td>Heat Treat ☐</td> <td>Cut Too Short ☐</td> <td>Mislabeled ☐</td> <td>Finish ☐</td> </tr> <tr> <td>LOA ☐</td> <td>Product Improvement ☐</td> <td>Wave/Twist in Tube ☐</td> <td>Instructions Incomplete/Unclear ☐</td> <td>Fit/Function ☐</td> <td>Misread ☐</td> </tr> <tr> <td>Substation ☐</td> <td>Process Improvement ☐</td> <td>Marks/Chatter ☐</td> <td>Drill Holes ☐</td> <td>Misaligned/off center ☐</td> <td>Turning Sequence ☐</td> </tr> <tr> <td>Past Expiry Date ☐</td> <td>Manufacturing Process ☐</td> <td colspan="4" rowspan="2" style="text-align: center; vertical-align: top;"> OTHER : _____ </td> </tr> <tr> <td>Misidentified ☐</td> <td>Past Due ☐</td> </tr> </table>				Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____				Misidentified ☐	Past Due ☐	FAULT CATEGORY <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Power Loss/Surge ☐</td> <td style="width:15%;">Positioned Wrong ☐</td> </tr> <tr> <td>Folio/Program ☐</td> <td>Outside Dimensions ☐</td> </tr> <tr> <td>Grain ☐</td> <td>Over/Under tolerance ☐</td> </tr> <tr> <td>Weld ☐</td> <td>Part Incorrect ☐</td> </tr> <tr> <td>Wrong Stock Pulled ☐</td> <td>Part Lost/Missing ☐</td> </tr> <tr> <td>Out of Sequence ☐</td> <td>Part Moved ☐</td> </tr> <tr> <td>Off-set ☐</td> <td>Drawing ☐</td> </tr> <tr> <td>Mislabeled ☐</td> <td>Finish ☐</td> </tr> <tr> <td>Fit/Function ☐</td> <td>Misread ☐</td> </tr> <tr> <td>Misaligned/off center ☐</td> <td>Turning Sequence ☐</td> </tr> </table>						Power Loss/Surge ☐	Positioned Wrong ☐	Folio/Program ☐	Outside Dimensions ☐	Grain ☐	Over/Under tolerance ☐	Weld ☐	Part Incorrect ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Out of Sequence ☐	Part Moved ☐	Off-set ☐	Drawing ☐	Mislabeled ☐	Finish ☐	Fit/Function ☐	Misread ☐	Misaligned/off center ☐	Turning Sequence ☐
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Picklist Print

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Page 5

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

MS21042L4

Purchased

No

Each

2,382.000

16

MS21042L4

Locknut

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

CCK004

2000

m133363

2000

FP001

2

m124231

2

GA

67

m127813

67

ST260a

138

m130799

56

m131803

6

m132262

76

ST305

175

m128300

8

m130388

7

m130922

97

m132123

56

m133316

7

AN316C4R

Purchased

No

Each

53.0000

8

AN316C4R

NUT

**

DAS

DAS

27

28

9-89

9-89

NOV 03 2015

Location

Loc Qty

Loc Code

ST331

53

1X m127618

3

3X m133234

50

Tuesday, November 03, 2015 11:41:30 AM

Shop Packet Print

Page 5

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____			
Misidentified	☐	Past Due	☐				

Picklist Print

Page 6

Tuesday, November 03, 2015 11:41:30 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

MS27039-08-13

Purchased

No

Each

370.0000

8

MS27039-08-13

Screw

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

cck007a

346

124326

346

ST281

24

4067

20

M130388

4

Each

106.0000

4

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

CA

48

112466

48

ST281

58

M130388

58

Each

1,954.000

24

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

GA

166

125268

166

ST260a

500

M133316

500

ST267

367

125268

100

M133284

267

st268

921

M130388

921

NAS1149FN832P

Purchased

No

Each

1,954.000

24

NAS1149FN832P

Washer

**

DAS

DAS

27

28

9-89

9-89

Location

Loc Qty

Loc Code

GA

166

125268

166

ST260a

500

M133316

500

ST267

367

125268

100

M133284

267

st268

921

M130388

921

NOV 03 2015

Tuesday, November 03, 2015 11:41:30 AM

Shop Packet Print

Page 6

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :			
Misidentified	☐	Past Due	☐				

Picklist Print

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Tuesday, November 03, 2015 11:41:30 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

NAS1149F0332P

Purchased

No

Each

1,189.000

24

NAS1149F0332P

**

Washer

Location

Loc Qty

Loc Code

DAS

DAS

27

28

9-89

9-89

GA

132

122063

132

ST260a

636

m128401

6

m131026

80

m131697

50

m133284

500

st268

117

123900

7

m130388

86

m133077

24

ST288

304

m133134

304

Each

746.0000

16

**

DAS

DAS

27

28

9-89

9-89

NAS1149F0432P

Purchased

No

NAS1149F0432P

WASHER

Location

Loc Qty

Loc Code

ST260a

500

M132551

500

st268

246

M128995

63

M130388

8

M132677

125

M133234

50

NOV 03 2015

16

Tuesday, November 03, 2015 11:41:30 AM

Shop Packet Print

Page 7

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

Page 8

Tuesday, November 03, 2015 11:41:30 AM

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

601.2045 Purchased No

Each 10.0000 2

BAS 27
9-89 DAS 28
9-89

601 2045

RTV (LOCTITE 598)

6
9-89

Location

Loc Qty

Loc Code

CCK096

10

m133275

10

Each 1,146.000

16

BAS 27
9-89 DAS 28
9-89

NAS1149F0463P

Purchased No

NAS1149F0463P

Washer

Location

Loc Qty

Loc Code

ST260a

973

m127832

973

st268

173

m127832

157

m130388

16

NOV 03 2015

Tuesday, November 03, 2015 11:41:30 AM

Shop Packet Print

Page 8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								

△ 6 AT CUSTOMERS OPTION, INSTALL F/N 101 BY MATCH DRILLING ONTO F/N 1.



	2	2	42	601.3005	CAMLOC RETAINER		
	2	2	41	601.3006	CAMLOC RECEPTACLE		
	4	4	40	601.3119	CLEVIS	17005-54R	
	2	2	39	601.3120	EYE BOLT	AP244-12A	
	2	2	38	601.3121	EYE BOLT	A1244-5A	
	1.5FT	1.5FT	37	601.3007	GROMMET	MS71266-2H	
	1.5FT	1.5FT	36	601.3011	P-SEAL		
	1	1	35	647.3201	GROUNDING CABLE ASSY		
	4	4	34	647.2511	NUT		
	4	4	33	647.2510	SLEEVE		
	13	13	32	647.1812	SHIM		
	2	2	31	647.1811	SPACER		
	1	1	30	647.1602	DOUBLER ASSY		
	1	1	29	647.1914	BRACKET		
	1	1	28	647.7822	EYE BOLT FITTING RH		
	1	1	27	647.7821	EYE BOLT FITTING LH		
	1	1	26	647.7818	MOUNTING CHANNEL		
	1	1	25	647.7820	CROSS BRACKET AFT		
	1	1	24	647.7819	CROSS BRACKET FWD		
	1	1	23	647.7918	BRACKET		
	1	1	22	647.7917	BRACKET		
	2	2	21	647.7916	BRACKET		
	1	1	20	647.7915	BRACKET		
	1	1	19	647.7914	BRACKET		
	2	2	18	647.7913	DOUBLER		
	4	4	17	647.7912	CLIP		
	2	2	16	647.7911	BRACKET		
	2	2	15	647.7910	ANGLE BACKET		
	4	4	14	647.7919	STRUT BRACKET		
	1	1	13	647.1810	NOSE DOOR DOUBLER		
	1	1	12	647.1818	NOSE DOOR SPACER		
	2	2	11	647.7701	STRUT ASSY		
	2	2	10	647.7702	STRUT ASSY		
	1	1	9	647.1815	GUSSET, RH		
	1	1	8	647.1814	GUSSET, LH		
	1	1	7	647.1915	SUPPORT ANGLE		
	1	1	6	647.1913	TEE		
	1	1	5	647.1610	WIPER DEFLECTOR, FWD		
	1	1	4	647.1601	WIPER DEFLECTOR ASSY, AFT		
	2	2	3	647.1701	SKID DEFLECTOR ASSY		
	1	1	2	647.7559	LOWER CUTTER ASSY		
	1	1	1	647.7401	UPPER CUTTER ASSY		
				647.7303	REMOVABLE PROVISIONS KIT		
				647.7302	FIXED PROVISIONS KIT		
				647.7301	EC135 CABLE CUTTERS KIT		
7303	7302	7301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC
QTY				PARTS LIST			
NEXT ASSY (S)		ORIGINAL DATE DRAWN BY CHKD BY DATE APPROVAL SIGNATURE DATE		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
		OTHER PARTS SPECIFIED BY DRAWING ARE PLANNED BY PLANNING DEPT. FOR PLANNING DEPT. FOR PLANNING DEPT. FOR		EC135 CABLE CUTTERS KIT			
		SEE PAGE CODE B. 07M26		DWG. NO. 647.7300		REV. A	
		SCALE NONE		SHEET 1 OF 6			

Work Order ID 138078 -2

October 23, 2015 10:55:28 AM

(141285)
138078

Ship Nov 20/15

50123628 Metro
50123627

Page 1

Item ID: 647.7303

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015 Start Qty: 2.00

2

Cust Item ID:

Required Date: 11/19/2015 Req'd Qty: 2.00

2

Customer:

Reference:

Approvals:

Process Plan: SIA

Date: 20151023

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

647.7300

A

100

Document Control

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 647.7303

DAS
28
9-89

FEB 03 2016

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

SMB
15/11/24

DAS
6
9-89

DAS
28
9-89

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

DAS
28
9-89

FEB 03 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐								
Misidentified	☐	Past Due	☐	OTHER : _____							

Work Order ID 138078

138078

Page 2

October 23, 2015 10:55:28 AM

Item ID: 647.7303 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: EC135 Cable Cutters (Removable Provisions Only)
 Start Date: 10/23/2015 Start Qty: 2.00 ***2*** Cust Item ID:
 Required Date: 11/19/2015 Req'd Qty: 2.00 ***2*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130						DAS 28 9-89		FEB 03 2016	
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 647.7303 Location: <u>107</u>								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

*W/o costed
 Adjusted in.
 SEE 141285
 16/02/03 JG
 16-2-3*

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
201 - 277									

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification ☐	☐	Pressure/Forced ☐	☐	Temperature/Cure ☐	☐
Design ☐	☐	Operator ☐	☐	Bending ☐	☐	Set-up ☐	☐
Doc/Data ☐	☐	Offset/Setup ☐	☐	Centre Not Concentric ☐	☐	BOM/Route ☐	☐
Equip/Tooling ☐	☐	Supplier ☐	☐	Cracks ☐	☐	Broken/Damage/Defect ☐	☐
Handling/Pre ☐	☐	Training ☐	☐	Crimp/Kink/Ripple/Wave ☐	☐	Inspection Incomplete/Unqualified ☐	☐
Material ☐	☐	Use for Testing ☐	☐	Cuffs ☐	☐	Contamination ☐	☐
Internal Transport ☐	☐	Poor Information ☐	☐	Crushing ☐	☐	Countersink ☐	☐
Tribal Knowledge ☐	☐	Rushing ☐	☐	Heat Treat ☐	☐	Cut Too Short ☐	☐
LOA ☐	☐	Product Improvement ☐	☐	Wave/Twist in Tube ☐	☐	Instructions Incomplete/Unclear ☐	☐
Substation ☐	☐	Process Improvement ☐	☐	Marks/Chatter ☐	☐	Drill Holes ☐	☐
Past Expiry Date ☐	☐	Manufacturing Process ☐	☐	OTHER : _____			
Misidentified ☐	☐	Past Due ☐	☐				

October 23, 2015 10:59:29 AM

138078

647 7303

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A 12.10.05 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.7401 *647 7401* Upper Cutter Assembly		Manufactured	No				Each	0.0000	1	2			
647.7501 *647 7501* Lower Cutter Assembly		Manufactured	No				Each	0.0000	1	2			
647.1701 *647 1701* Skid Deflector Assembly		Manufactured	No				Each	1.0000	2	4			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				CCK033		1							
				135086		1							
647.7702 *647 7702* Strut Assembly		Manufactured	No				Each	4.0000	2	4			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				CCK051		4							
				M130388		4							
647.7701 *647 7701* Strut Assembly		Manufactured	No				Each	5.0000	2	4			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				CCK114		5							
				M130388		5							

Picklist Print

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Page 2

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

647.0112

Manufactured No

Each

123.0000

**

4 8

Smb

DAS
6
9-89

647 0112

Strut Bracket

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK032a

114

123318

22

M130388

92

CCK107

1

122245

1

CCK109

8

122871

8

123318

0

AN665-34R

Purchased

No

Each

18.0000

**

4 8

Smb

DAS
6
9-89

AN665-34R

Clevis

DAS
28
9-89

Location

Loc Qty

Loc Code

ST330

18

M130388

4

M133134

14

AN3-11A

Purchased

No

Each

150.0000

**

4 8

Smb

DAS
6
9-89

AN3-11A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST338a

50

m133363

50

ST349

100

m132823

8

m133234

92

Smb
15/11/15

Picklist Print

October 23, 2015 10:55:33 AM

Page 3

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

AN4C7A

Purchased

No

Each

56.0000

8

**

DAS
6
9-89

AN4C7A

BOLT

DAS
28
9-89

Location

Loc Qty

Loc Code

ST340

20

m133363

20

ST345

36

m127363

36

Each

140.0000

8

**

DAS
6
9-89

NAS6603-12

Purchased

No

NAS6603-12

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST261

140

123900

128

m130388

12

Each

35.0000

8

**

DAS
6
9-89

NAS6603-16

Purchased

No

NAS6603-16

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST261

35

m128199

23

m130388

12

Each

116.0000

8

**

DAS
6
9-89

NAS6604-66

Purchased

No

NAS6604-66

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST261

116

124328

72

m130388

44

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Shop Packet Print

Page 3

Picklist Print

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Page 4

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

MS21042-08

MS21042L08

Purchased

No

Each

33.0000

MS21042-08

USE MS21042L08

**

12

132930

Shp

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

Each

329.0000

**

8

Shp

DAS
6
9-89

MS21042-3

MS21042L3

Purchased

No

MS21042-3

Nut / use MS21042L3

Location

Loc Qty

Loc Code

ST305

329

M128770

10

M129541

15

M129682

281

M130388

23

DAS
28
9-89

15/11/25

Picklist Print

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Page 5

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

MS21042L4

Purchased

No

Each

2,760.000

16

MS21042L4

Locknut

**

SMB DAS 6 9-89

Location

Loc Qty

Loc Code

CCK004

2000

m133363

2000

16

FP001

2

m124231

2

GA

67

m127813

67

ST260a

138

m130799

56

m131803

6

m132262

76

ST305

553

m128300

8

m130388

7

m130922

97

m131618

12

m132123

56

m132382

273

m133316

100

Each

53.0000

8

**

SMB 15/11/25

AN316C4R

Purchased

No

AN316C4R

NUT

Location

Loc Qty

Loc Code

ST331

53

m127618

3

m133234

50

3

Picklist Print

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Page 6

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015 DAS

Start Qty: 2.00

Required Qty: 2.00 6 9-89

MS27039-08-13

Purchased

No

Each

370.0000

4 8

MS27039-08-13

Screw

SMB

Location

Loc Qty

Loc Code

cck007a

346

124326

346

ST281

24

4067

20

M130388

4

Each

106.0000

2 4

SMB

MS27039-08-16

Purchased

No

MS27039-08-16

SCREW PAN HD

Location

Loc Qty

Loc Code

CA

48

112466

48

ST281

58

M130388

58

Each

2,232.000

12 24

SMB

NAS1149FN832P

Purchased

No

NAS1149FN832P

Washer

Location

Loc Qty

Loc Code

GA

346

125268

346

ST260a

500

M133316

500

ST267

465

125268

100

M133284

365

st268

921

M130388

921

24

DAS

6

9-89

15/11/24

Picklist Print

October 23, 2015 10:55:33 AM

Page 7

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

NAS1149F0332P

Purchased

No

Each

1,672.000

18 24

NAS1149F0332P

Washer

**

SMB

DAS
6
9-89

Location

Loc Qty

Loc Code

GA

162

122063

162

ST260a

1393

m128401

6

m131026

80

m131697

50

m133134

600

m133284

500

m133316

157

st268

117

123900

7

m130388

86

m133077

24

24

DAS
28
9-89

✓

NAS1149F0432P

Purchased

No

Each

1,040.000

8 16

NAS1149F0432P

WASHER

**

SMB

DAS
6
9-89

Location

Loc Qty

Loc Code

ST260a

500

M132551

500

st268

540

M128995

63

M130388

8

M132677

125

M133234

344

16

DAS
28
9-89

✓

15/11/25

Picklist Print

October 23, 2015 10:55:33 AM

Page 8

Work Order ID: 138078

138078

Parent Item: 647.7303

647 7303

Parent Item Name: EC135 Cable Cutters (Removable Provisions Only)

Start Date: 10/23/2015

Required Date: 11/19/2015

Start Qty: 2.00

Required Qty: 2.00

601.2045

Purchased

No

Each

12.0000

2

**

601 2045

RTV (LOCTITE 598)

DAS
28
9-89

Location

CCK096

Loc Qty

12

Loc Code

✓

5/31/2017

2

12

Each

1,152.000

16

**

NAS1149F0463P

Purchased

No

NAS1149F0463P

Washer

Location

ST260a

Loc Qty

973

Loc Code

✓

m127832

973

st268

179

m127832

163

m130388

16

DAS
28
9-89

DAS
6
9-89

SMB

SMB
15/11/25

DAS
6
9-89

20151023

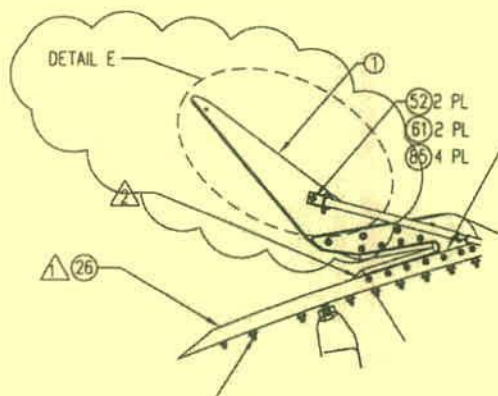
514138078

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03044				SHEET 1 OF 1	
	DWG NO. 647.7300	REV: N/C	PREPARED BY J. JACKSON	DATE: 01/20/11	EFFECT ON DWG ☐ INC. ☒ UNINC.	
	DWG TITLE: EC135 CABLE CUTTERS KIT					
APPROVED BY: ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>		QC <i>[Signature]</i>		EFF: NEXT ORDER
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: ADDED GPS MOUNT KIT, F/N 100. REVISED DRAWING VIEWS. ADDED NOTE 6.				

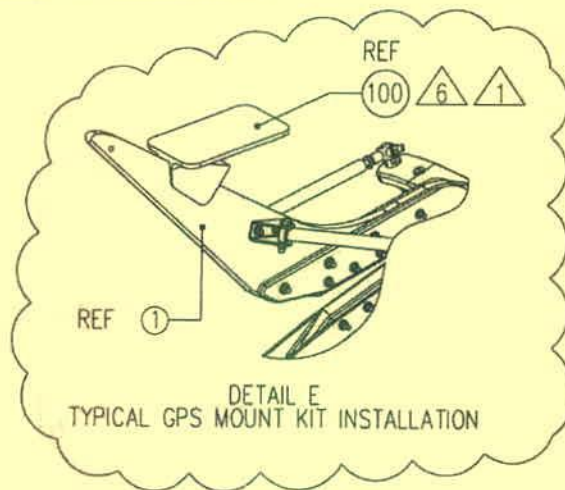
SHEET 1, ZONE A1 IS:

△ 6 AT CUSTOMERS OPTION, INSTALL F/N 100 BY MATCH DRILLING ONTO F/N 1.

SHEET 2, ZONE A2 IS:

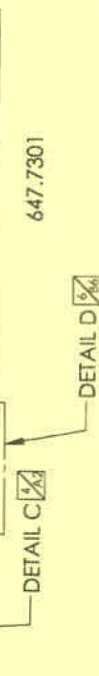


SHEET 2, ZONE C6 IS:



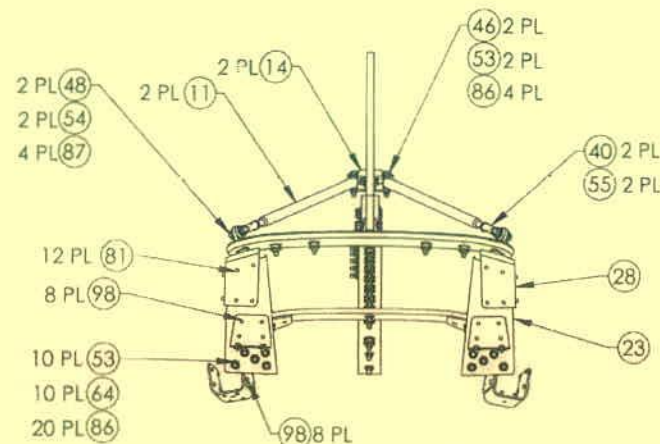
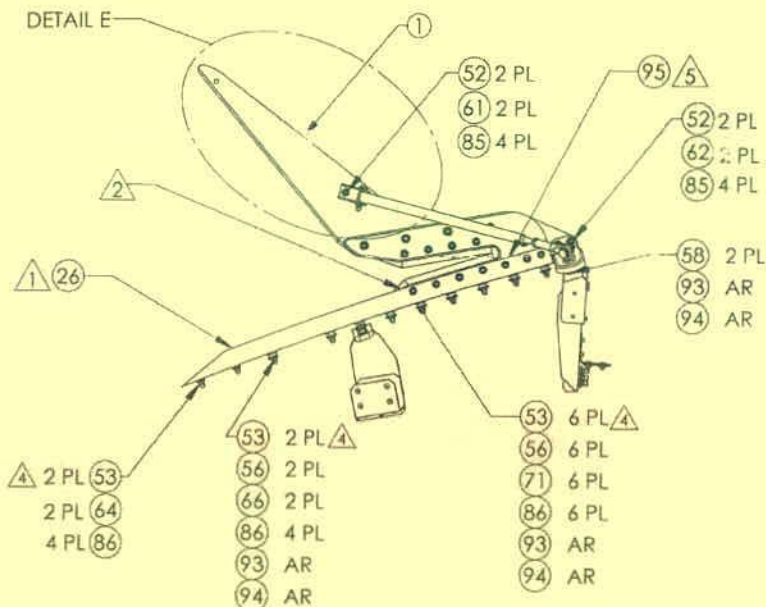
100	A	647.5701	REF	GPS MOUNT KIT	△ 6	
F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL	SPECIFICATION
DOCUMENTS EFFECTED:				☐ MDL ☐ INSTALL INSTRU ☐ ICA ☒ BOM	CHANGE CATEGORY ☐ MAJOR ☒ MINOR	DER REVIEW REQUIRED ☐ YES ☒ NO

023044

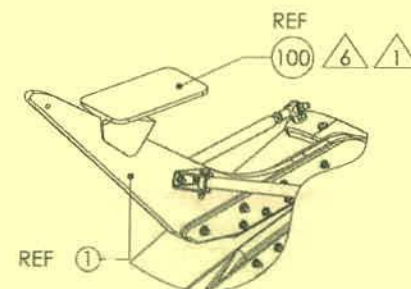
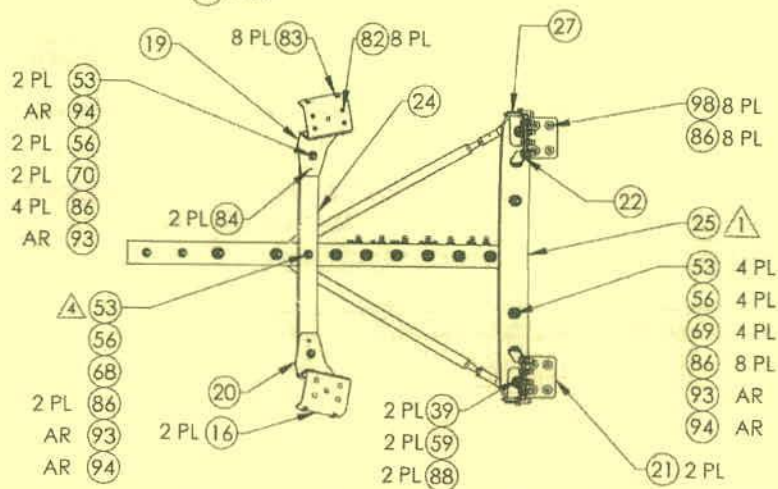
[illegible]

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DETAIL E



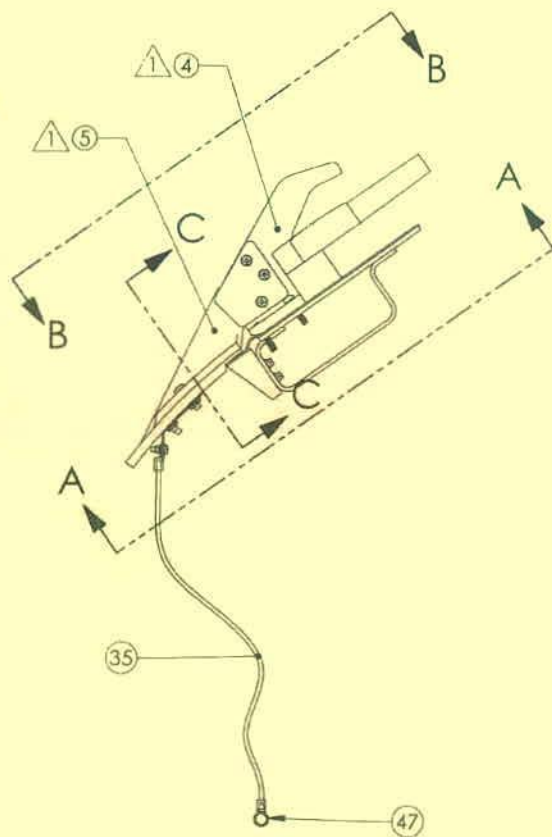
DETAIL A



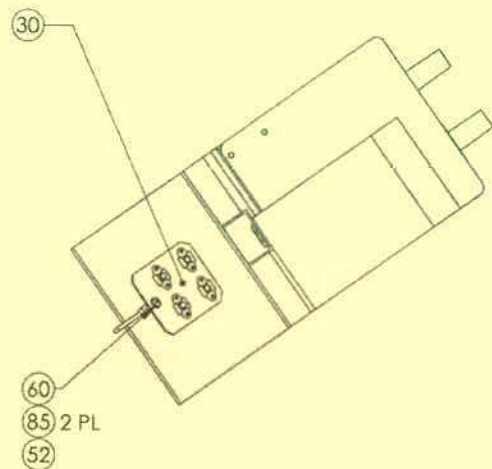
DETAIL E
TYPICAL GPS MOUNT KIT INSTALLATION

ORIGINAL DATA REVISIONS		APICAL INDUSTRIES	
DESIGNED BY A. GUAN		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BAKER		EC135 CABLE CUTTERS KIT	
CONTRACT NO.		REV	A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 1°		728	647.7300
		SCALE: NONE	SHEET 2 OF 6

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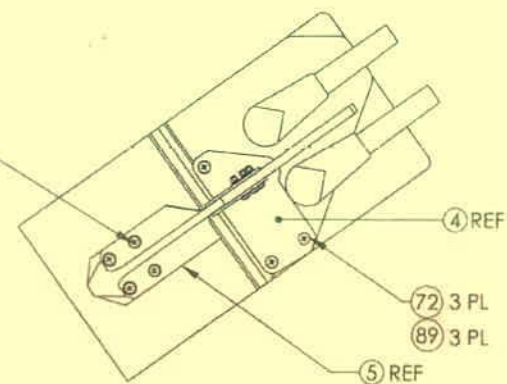


DETAIL B

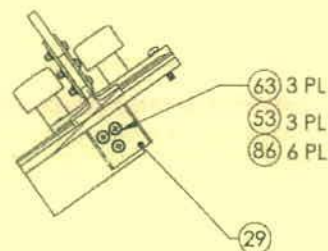


SECTION A-A

4 PL (67)
4 PL (86)



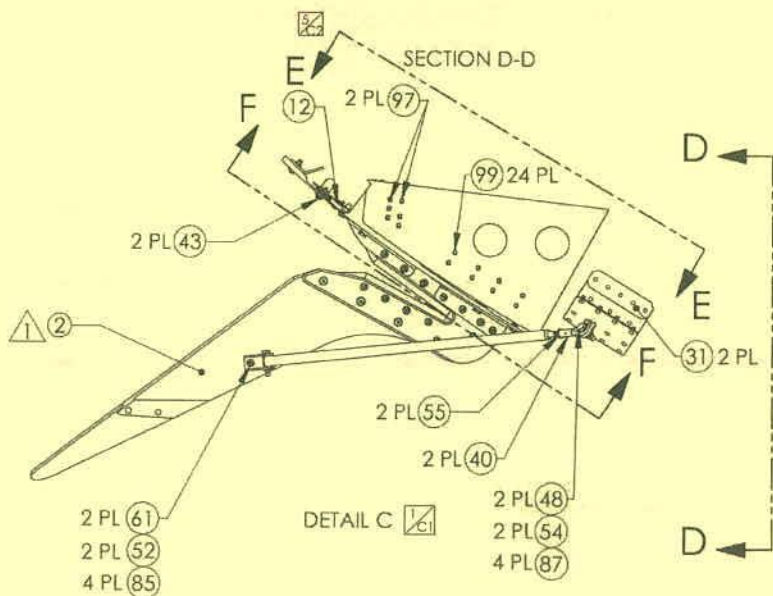
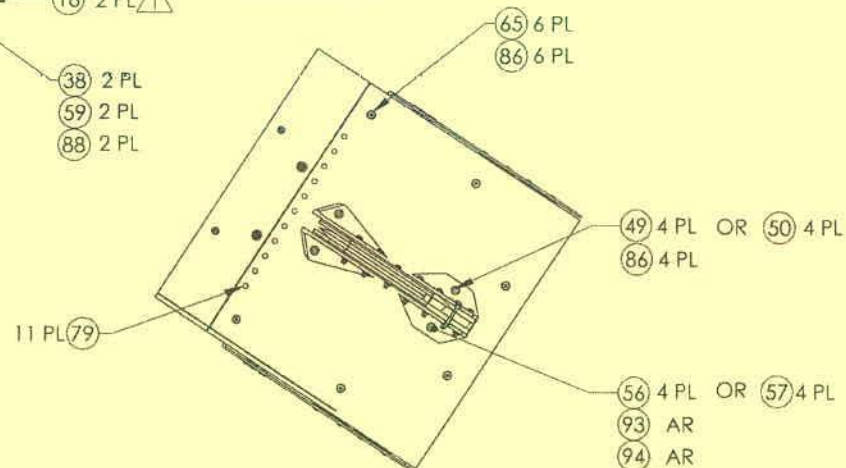
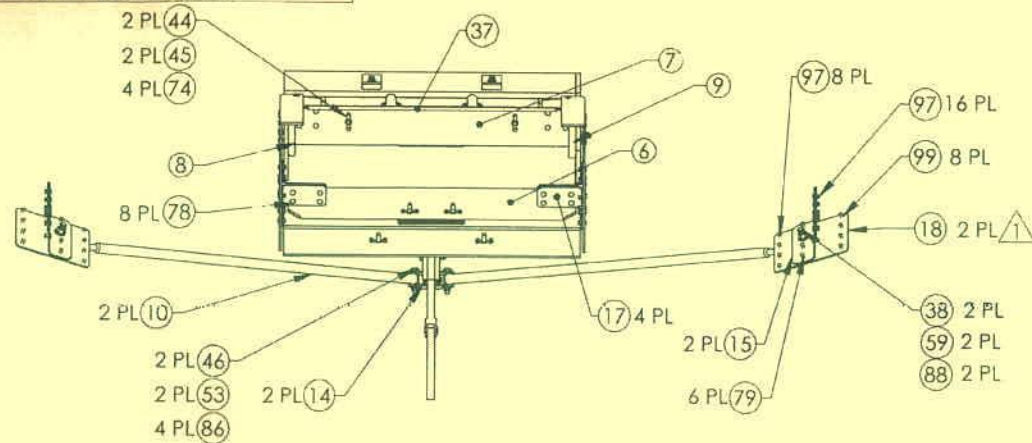
SECTION B-B



SECTION C-C

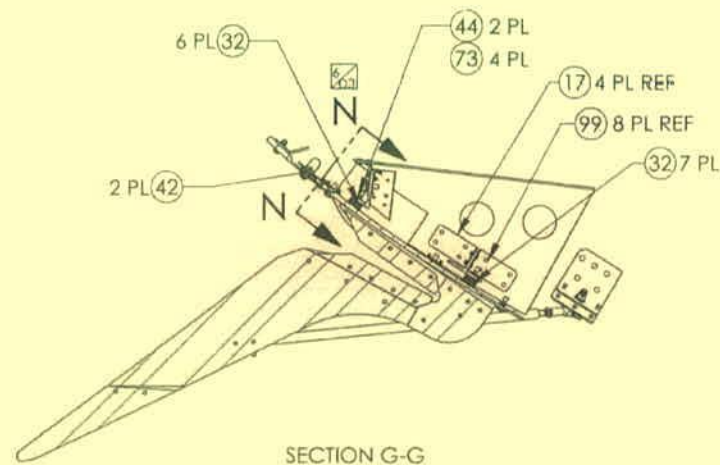
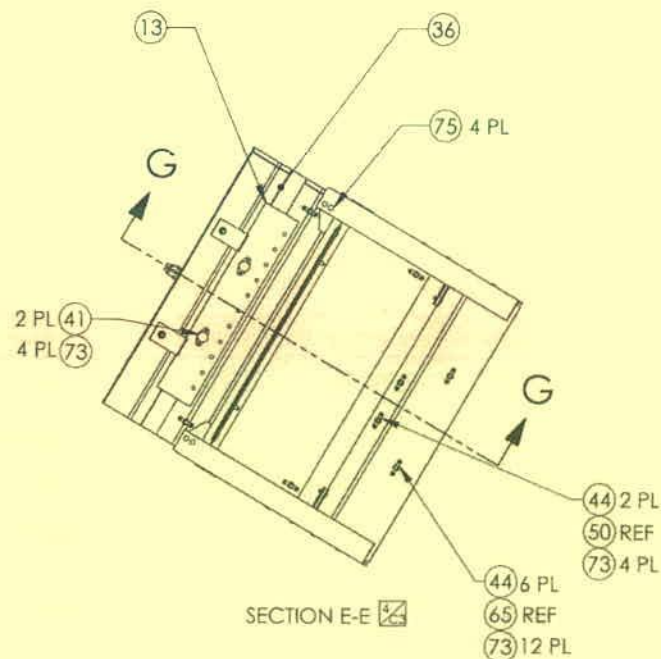
ORIGINAL DATE: 11/10/88 DRAWN BY: T. GARDNER CHECKED BY: J. GARDNER DRAWING APPROVAL: J. GARDNER DATE: 11/10/88			
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300			
EC135 CABLE CUTTERS KIT			
SEE CAGE CODE: 07M426 SCALE: NONE	DWD. NO: 647.7300	REV: A	SHEET 3 OF 6

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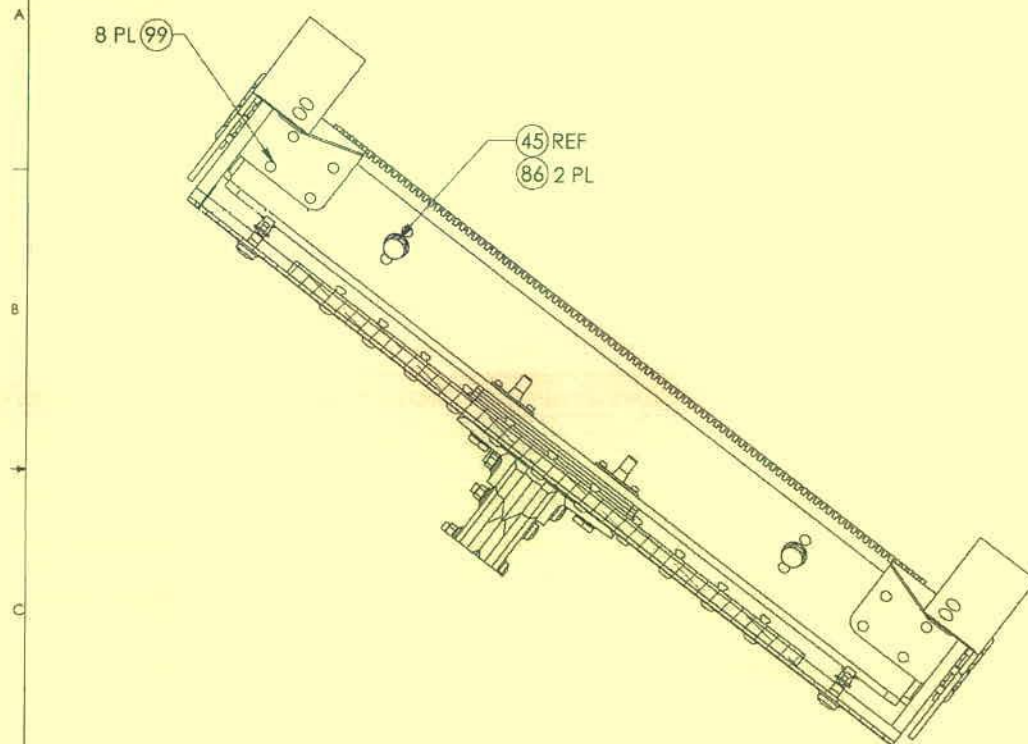
ORIGINAL DATE 1/20/79		APICAL INDUSTRIES	
DRAWN BY A. DIAH		2608 TEMPLE HEIGHTS DR.	
CHECKED BY P. BRADY		OCEANSIDE, CA. 92056-3512 (760) 724-5300	
CONTRACT NO.		EC135 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES $\pm 3^\circ$		REV. CAGE CODE B 0742A	DWG. NO. 647.7300
		SCALE NONE	REV. A
		SHEET 4 OF 6	

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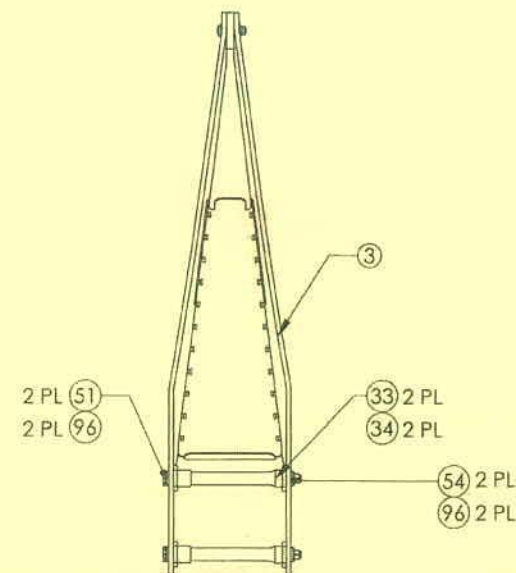


APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
EC135 CABLE CUTTERS KIT	
DESIGNED BY: [blank] CHECKED BY: [blank] A. OSMAN DRAWING APPROVAL: [blank] M. BRAYO CONTRACT NO.: [blank]	DWG. (CAGE CODE) DWS. NO. 647.7300 # 07M26 SCALE: NONE SHEET 5 OF 5

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INBOARD →



DETAIL D
TYP 2 PL

ORDINAL DATE
REV. DATE
DESIGNED BY
A. QUAN
DRAWN BY
A. BRAY
CHECKED BY
A. BRAY
THREE COPY WISE SPECIFICATIONS
DRAWING AND B. BARKER
C. BARKER
3 PLACES DRAWING
1.01
PLACES DRAWING
1.01
ARCHES 7-3

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760) 724-5300

EC135 CABLE CUTTERS KIT

REV	CAGE CODE	DWG. NO.	REV
B	07M26	647.7300	A
SCALE: NONE		SHEET 6 OF 6	

DAS
28
9-89

△ AT CUSTOMERS OPTION, INSTALL F/N 101 BY MATCH DRILLING ONTO F/N 1

[illegible]

Work Order ID 138078

Tuesday, November 03, 2015 11:41:30 AM

138078

DUPLICATE

Page 1

Item ID: 647.7303 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: EC135 Cable Cutters (Removable Provisions Only)
 Start Date: 10/23/2015 Start Qty: 2.00 ***2*** Cust Item ID:
 Required Date: 11/19/2015 Req'd Qty: 2.00 ***2*** Customer:

Reference:

Approvals: Process Plan: *MF* Date: *5-11-04* Tooling: Date: Run Start ***NR1***
 QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.7300	A								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.7303								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

MCS NOV 04 2015

2

NOV 03 2015